

OP CODE: 1406

Reg. No:..... .

FIRST YEAR B.PHARM DEGREE EXAMINATION, AUGUST 2011

Human Anatomy and Physiology

Time: 3 hrs

Max Marks: 100

Answer all the questions.

Draw the neat, labeled diagram wherever necessary.

Essay

(2X 10=20)

1. Describe the structure of cell and its components with their functions.
2. With the help of a neat, labeled diagram explain the histology of nervous tissue.

Write Short notes on

(10 X 5 = 50)

3. Draw a neat labeled diagram of normal ECG. Correlate the ECG waves with atrial and ventricular systole.
- 4 Describe the metabolic, anti-inflammatory and immune functions of glucocorticosteroids.
5. Summarize the functions of medulla oblongata.
6. Describe the bones of upper limb.
7. Briefly discuss the structure and functions of respiratory system.
8. Explain how digestion and absorption of carbohydrates occur from GI tract.
9. Define and explain vital capacity and anoxia.
10. With a neat diagram explain the formation and destruction of RBC, and recycling of hemoglobin.
11. Describe the process of spermatogenesis.
12. Describe the digestion and absorption in small intestine.

Answer Briefly

(10 X 3 = 30)

13. Write on ABO system of blood grouping.
14. Name the various cells present in anterior pituitary gland and mention its functions
15. List the symport and antiport systems present in nephron which is responsible for tubular reabsorption process.
16. Explain the metabolic functions of insulin.
17. What is hemolysis and what precaution is required to prevent that.
18. Define any two CNS disorders.
19. Which divisions of the autonomic nervous system cause miosis and mydriasis and explain how.
20. What are the differences between external respiration and internal respiration.
21. Write the composition and functions of cerebrospinal fluid.
22. Draw neat labeled diagram of sperm.
